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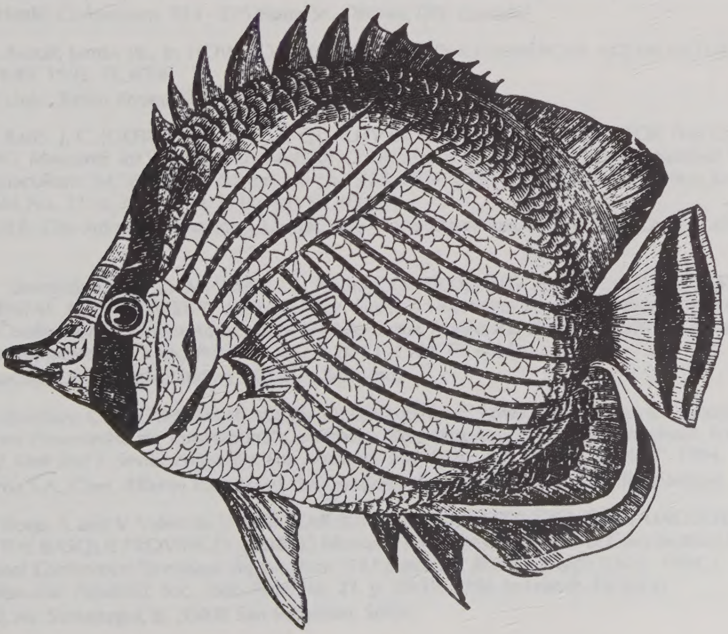

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95-008196 Crawford, Robert J. M. and Bruce M. Dyer. RESPONSES BY FOUR SEABIRD SPECIES TO A FLUCTUATING AVAILABILITY OF CAPE ANCHOVY *ENGRAULIS CAPENSIS* OFF SOUTH AFRICA. *Ibis* 137(3):329-339. 1994. FR 40(4)
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[Baird: Inst. Aquacult., Univ. Stirling, Stirling FK9 4LA, Scotland] *Tilapia.*

95-008202 Diehl, Sebastian and Peter Eklov. EFFECTS OF PISCIVORE-MEDIATED HABITAT USE ON RESOURCES, DIET, AND GROWTH OF PERCH. *Ecology* 76(6):1712-1726. 1995. FR 40(4)
[Dep. Biol. Sci., Univ. Calif., Santa Barbara 93106-9610] *Perca fluviatilis* and *Esox lucius.*

95-008203 Dilworth-Christine, Pamela M. THE EFFECT OF PISCIVOROUS FISH AND NUTRIENT AVAILABILITY ON THE BIOMASS AND COMMUNITY SIZE STRUCTURE OF PHYTOPLANKTON AND ZOOPLANKTON IN 29 TEMPERATE LAKES. *M.S. thesis, Univ. Ottawa (Canada)* 126p. 1993. From Masters Abstr. Int. 33(2):472. 1995. Order No. MAMM89658. FR 40(4)

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[Norwegian Coll. Fish. Sci., Univ. Tromso, N-9037 Tromso, Norway] *Gadus morhua, Mallotus villosus, Clupea harengus, Sebastes, Hippoglossoides platessoides, Melanogrammus aeglefinus,* and *Boreogadus saida.*

95-008205 Dudgeon, D. THE INFLUENCE OF PREY REFUGES ON PREDATOR IMPACTS IN A HONG KONG STREAM. *INTELCOL Manchester 1994: Progress to Meet the Challenge of Environmental Change. Proceedings of the VI International Congress of Ecology, 21 to 26 August 1994, Manchester, United Kingdom. John H. Tallis, Hazel J. Norman, and Richard A. Benton, editors.* p. 44. 1994. Abstract only. FR 40(4)

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95-008207 Fernandes, Carlos A. REPLACEMENT OF GIZZARD SHAD (*DOROSOMA CEPEDIANUM*) BY BLUE TILAPIA (*TILAPIA AUREA*) AS A POTENTIAL BIOMANIPULATION AGENT IN FLORIDA EUTROPHIC LAKES. *Ph.D. dissertation, Univ. Fla.* 1995. FR 40(4)

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[Lab. Acuacult., Fac. Cienc. Biol., Univ. Autonoma Nuevo Leon, Apdo. Postal 438, San Nicolas de los Garza, N.L., C.P. 66450, Mexico] *Cyprinus carpio.*

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95-008266 van Eerden, Mennobart R. and Jens Gregersen. LONG-TERM CHANGES IN THE NORTHWEST EUROPEAN POPULATION OF CORMORANTS *PHALACROCORAX CARBO SINENSIS. Special Issue: Cormorant, Phalacrocorax carbo. Mennobart van Eerden, Kees Koffijberg, Maarten Platteeuw, and Menno Zijlstra, editors. Ardea* 83(1):61-79. 1995. In English with Dutch summ. FR 40(4)
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[Cent. O.R.S.T.O.M. Montpellier, (D.E.C., UR2D), 911 Ave. d'Agropolis, B.P. 5045, 34032 Montpellier cedex 1, France] Data for 26 species.

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ADMINISTRATION AND PLANNING

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STOCKING AND INTRODUCTIONS

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[Natl. Biol. Serv., Coop. Fish & Wildl. Res. Unit, Univ. Maine, 5751 Murray Hall, Orono 04469] *Salmo salar.*

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[U.S. For. Serv., Rocky Mt. For. & Range Exp. Stn., Southwest For. Sci. Complex, 2500 S. Pineknoll Dr., Flagstaff, AZ 86001] *Oncorhynchus apache, O. mykiss, Lepidomeda vittata, Salmo trutta,* and *Salvelinus fontinalis.*

95-009199 Satterfield, James R., Jr. and Keith D. Koupal. SPLAKE AS A CONTROL AGENT FOR BROOK TROUT IN SMALL IMPOUNDMENTS. *Uses and Effects of Cultured Fishes in Aquatic Ecosystems: Proceedings of the International Symposium and Workshop held in Albuquerque, New Mexico, 12-17 March 1994. Harold L. Schramm Jr. and Robert G. Piper, editors. Am. Fish. Soc. Symp.* No. 15. p. 431-436. 1995. FR 40(4)
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[Game & Fresh Water Fish Comm., Non-Native Fish Res. Lab., 801 Northwest 40th St., Boca Raton, FL 33431] *Tilapia mariae, Cichla ocellaris, Lepomis microlophus, L. macrochirus,* and *Micropterus salmoides.*

95-009202 Shaklee, James B.; Carol Smith; Sewall Young; Christopher Marlowe; Chuck Johnson and Brad B. Sele. A CAPTIVE BROODSTOCK APPROACH TO REBUILDING A DEPLETED CHINOOK SALMON STOCK. *Uses and Effects of Cultured Fishes in Aquatic Ecosystems: Proceedings of the International Symposium and Workshop held in Albuquerque, New Mexico, 12-17 March 1994. Harold L. Schramm Jr. and Robert G. Piper, editors. Am. Fish. Soc. Symp.* No. 15. p. 567. 1995. FR 40(4)

[Dep. Fish & Wildl., P.O. Box 43151, Olympia, WA 98504] *Oncorhynchus tshawytscha* in Washington.

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[Univ. Alaska, Juneau Cent. Fish. & Ocean Sci., 11120 Glacier Hwy., Juneau 99801] *Oncorhynchus keta* in Alaska.

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95-009206 Takaba, Minoru; Shuichi Kitada; Hiroshi Nakano and Taizo Morioka. [SURVIVAL, FEEDING ACTIVITY, AND LIVER CONSTITUENTS OF RED SEA BREAM RELEASED INTO THE SETO INLAND SEA OF JAPAN WITH SPECIAL REFERENCE TO FISH QUALITY.] *Nippon Suisan Gakkaishi* 61(4):574-579. 1995. In Japanese with English summ. FR 40(4)

[Hiroshima Prefectural Fish. Exp. Stn., 6-21-1 Hatami, Ondo, Aki, Hiroshima 737-12, Japan] *Pagrus major.*

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Oncorhynchus nerka in Alaska.

95-009208 Van den Avyle, Michael J.; Julie E. Wallin and Carl Hall. RESTORATION OF THE SAVANNAH RIVER STRIPED BASS POPULATION. *Uses and Effects of Cultured Fishes in Aquatic Ecosystems: Proceedings of the International Symposium and Workshop held in Albuquerque, New Mexico, 12-17 March 1994. Harold L. Schramm Jr. and Robert G. Piper, editors. Am. Fish. Soc. Symp.* No. 15. p. 572. 1995. FR 40(4)

[Natl. Biol. Serv., Coop. Fish & Wildl. Res. Unit, Daniel B. Warnell School For. Resour., Univ. Ga., Athens 30602] *Morone saxatilis* in Georgia and South Carolina.

95-009209 Van Vooren, Allan R. THE ROLES OF HATCHERIES, HABITAT, AND REGULATIONS IN WILD TROUT MANAGEMENT IN IDAHO. *Uses and Effects of Cultured Fishes in Aquatic Ecosystems: Proceedings of the International Symposium and Workshop held in Albuquerque, New Mexico, 12-17 March 1994. Harold L. Schramm Jr. and Robert G. Piper, editors. Am. Fish. Soc. Symp.* No. 15. p. 512-517. 1995. FR 40(4)

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95-009210 Wahl, David H.; Roy A. Stein and Dennis R. DeVries. AN ECOLOGICAL FRAMEWORK FOR EVALUATING THE SUCCESS AND EFFECTS OF STOCKED FISHES. *Uses and Effects of Cultured Fishes in Aquatic Ecosystems: Proceedings of the International Symposium and Workshop held in Albuquerque, New Mexico, 12-17 March 1994. Harold L. Schramm Jr. and Robert G. Piper, editors. Am. Fish. Soc. Symp.* No. 15. p. 176-189. 1995. FR 40(4)

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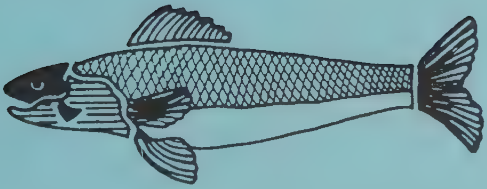

BOOK REVIEW

Aquatic Ecology: Scale, Pattern and Process, edited by Paul S. Giller, Alan G. Hildrew, and David G. Raffaeli. Symp Br. Ecol. Soc. No. 34. 1994. Blackwell Science Publishers, Oxford, England. xiii + 649p. Available from Blackwe Scientific Publications, Inc., 238 Main St., Cambridge, MA 02142 (tel:800-759-6102) at $75.00 (cloth: ISB 0-632-03789-X).

Aquatic Ecology: Scale, Pattern and Process is the result of a joint meeting of the American Society for Limnolog and Oceanography and the British Ecological Society held in Great Britain in 1992. The 21 chapters are revie papers of freshwater and marine ecosystems by leading authorities throughout the world. It is the firs comprehensive attempt to discuss the interaction between pattern and process in aquatic ecosystems at differen spatial and temporal scales.

The editors present a five-page introduction that describes the organizing framework of the book, beginning wit upland aquatic systems, then moving "down the slope" as far as the ocean depths. This organization is summarize in a useful graph, admittedly not drawn to scale because of the vast spatial differences between freshwater an marine ecosystems. In spite of these spatial differences the number of papers is balanced between the two majo ecosystems with 10 freshwater and 10 marine chapters and a final concluding chapter by the editors.

The editors admit in the introduction that they present no definition of scale, pattern, or process. The author Chapter 14 attempts to define scale in two ways, by either referring to time and space of the approach or t resolution from the data gathered. The summary chapters on freshwater (Chapter 19) and marine (Chapter 2 ecosystems provide excellent definitions of the terms and interesting, understandable, and unifying thought from the symposium. Readers may want to review these two summary chapters first before getting engrosse in details presented in the more specific chapters.

The authors search for commonalities in marine and freshwater ecosystems and present numerous comparison One dominant conclusion is that physical processes are the architects of heterogeneity in virtually all aquati ecosystems. Examples of this theme are the role of fluid motion in lakes and rivers in regard to populations phytoplankton (Chapter 6) and the impact of fluid motion on oceanic food webs (Chapter 12). Anothe phenomenon related to physical processes yields far more species of freshwater fishes (especially cichlids) i large lakes than in large rivers of Africa (Chapter 9). The author argues that changeability of the riverin environment selects species with broad habitat tolerances (eurytopes), whereas the less variable lacustrin environment permits development of species with narrow habitat tolerances (stenotopes).
A second commonality in the two ecosystems is the role of disturbance as a cause of patchiness in biologic systems. The actions of disturbing foragers (ducks, fish, crabs) on benthic habitats (Chapter 11) can caus patchiness by disturbing or reshaping the substrata. Patchiness is also created by differences in nutrie distribution, which affects distribution of plankton in lakes (Chapter 7) or benthos in the deep sea (chapters 1 and 16).

The book's value is greatest in its comparative approach, that is, in discussing commonalities in the two majo aquatic ecosystems. A recurring symposium emphasis is the need to consider the landscape when dealing wit small-scale freshwater systems. Also underscored is a warning that new technology provides more data abo marine ecosystems than researchers can adequately integrate into conceptual and computer models. The boo contains excellent discussions of traditional theories dealing with such topics as predator-prey relationships an plant succession, but also provides challenging new insights on their mechanisms.

Aquatic Ecology: Scale, Pattern and Process is an excellent book for graduate-level seminars or for researche delving into in-depth reviews of aquatic ecosystems. The text is well-supported by data presented in graphs an tables, and the references cited are numerous and current. The book will be a good addition to the libraries aquatic ecologists.—*Matthew C. Perry, National Biological Service, Patuxent Environmental Science Center, 114 American Holly Dr., Laurel, Maryland 20708-4017 (tel:301-497-5622; fax:301-497-5624; mail:matt_perry@nbs.gov).*

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  Bacterial Gill Disease
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  Bacterial Kidney Disease
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  Bacteriophages
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  Biological Indicators
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  Calculosis
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  Cataracts
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  Cell Culture
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  Channel Catfish Reovirus
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  Chloramines
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  Chloramphenicol
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  Chum Salmon Virus
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  Ciliates
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  Coelenterates
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  Computer Applications
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  Copper
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  Culture/Propagation
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  Disease Control
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  Disease Importation
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  Drug Resistance
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  Edema
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  Eggs
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  Endoparasites
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  Enteric Redmouth Disease
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  Enteric Septicemia
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  Epidermal Lesions
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  Epitheliocystis
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  Epizootic Epitheliotropic Disease
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  Epizootic Haematopoietic Necrosis
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  Epizootic Ulcerative Syndrome
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  Erythrocytic Inclusion Body Syndrome
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  Erythrodermatitis
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  Erythromycin
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  Eubacterial Meningitis
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  Fish Kills
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  Florfenicol
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- Flumequine
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- Formaldehyde
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- Formalin
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  - 95-008772
- Fungal Diseases
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- Fungicides
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- Furunculosis
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- Gas Bubble Disease
  - 95-007303
- General
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- Gentamicin
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- Gill Diseases
  - 95-008665
  - 95-008803
- Gill Hyperplasia
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- Gill Necrosis
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- Gill Parasites
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- Golden Shiner Virus
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- Handbooks
  - 95-008470
- Hatchery/Wild Populations
  - 95-008507

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- Hepatic Lipoidosis
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- Hepatic Neoplasms
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- Herpesvirus
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- Histology
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- Hooking/Handling Stress
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- Ichthyophonus Disease
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- Immune Response
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Proliferative Kidney Disease
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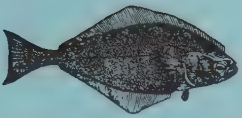

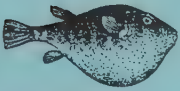

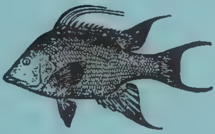

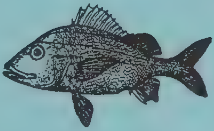

BOOK REVIEW

Carp and Pond Fish Culture: Including Chinese Herbivorous Species, Pike, Tench, Zander, Wels Catfish and Goldfish. Laszlo Horvath, Gizella Tamas, and Chris Seagrave. 1992. Fishing News Books, Ltd., Oxford, England ix + 158p. Available from Blackwell Science Publications Ltd., 238 Main St., Cambridge, MA 02142 (tel:800-759 6102) at 27.50 (ca. $42.25) (cloth: ISBN 0-852-38-179-4).

Significant increases in world fish supply can only come from aquaculture because fish production from all other sources approximates the estimated maximum sustainable yield. Logically, culture systems will increasingly utilize fishes that are efficient converters. Although the authors of *Carp and Pond Fish Culture* recognize the contemporary limited interest for carps as food fish in some parts of the world, they surely must have difficulty in understanding this general apathy, because central Europeans have such a traditional esteem for carp.

Information on carp culture published in English has increased in the past decade, and much credit should be given to European scientists. This book has similarities to earlier contributions involving primarily the first author however, it appears to be reaching for a broader audience, for the writing style is more general than earlier books The contents and organization are similar to those in the related book, *Special Methods in Pond Fish Husbandry* (L. Horvath, G. Tamas, and I. Tolg. 1984. Akad. Kiado, Budapest), but with the inclusion of a few more species and less specific detail. The figures are based on artwork introduced in two extension and training manuals by Horvath and his associates: (1) *The artificial propagation of warm-water finfishes—a manual for extension* (E Woynarovich and L. Horvath. 1980. FAO Fish. Tech. Paper 201) and (2) *Common carp. Part I, Mass production of eggs and early fry* and *Part II. Mass production of advanced fry and fingerlings in ponds* (L. Horvath, G. Tamas and A. G. Coche. 1985. FAO Training Ser. 8 and 9). These illustrations are effective and refreshingly unusual.

The first five chapters concentrate on culture of the common carp in ponds, focusing on history, principles propagation, fry rearing and "ongrowing." In Chapter 6, the "other" species are very briefly discussed. These include the herbivorous carps (Chinese carps), European tench (*Tinca tinca*), pike (*Esox lucius*), zander or pike perch (*Stizostedion lucioperca*), wels or European catfish (*Silurus glanis*), and goldfish (*Carassius auratus*). The revisitation of this information is valid considering that an expanded audience may be reached through this book However, I was a little surprised to see retained some recommendations that I consider dated. The author recommend that the genital opening of carp females should be sutured during hormonal induction so as to avoid egg loss, instead of using knowledge of the post-injection latency--temperature relationship. Surely the suturing procedure is now a historical anecdote and is not still being practiced? Similarly, the measurement of girth to estimate hypophyseal dose rate for grass carp must also be a relict from the past.

Carp and Pond Fish Culture is attractive because it provides general information for species not familiar to many Westerners, is illustrated in a novel and refreshing manner, and may be more accessible to Americans than previous contributions. I recommend this book as general reading for those interested in fish culture of European species, but—for information on details—it falls a little short.—*William L. Shelton, Zoology Department, University of Oklahoma, Norman, Oklahoma 73019 (tel:405-325-1058; fax:405-325-7504; e-mail:wshe ton@obsnsrv1.bio.uoknor.edu).*

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BOOK REVIEW

Dangling Lines. The Fisheries Crisis and the Future of Coastal Communities: The Norwegian Experience, by Svein Jentoft. 1993. ISER Books, Institute of Social and Economic Research, Memorial University of Newfoundland, Elizabeth Avenue, St. John's, NF, Canada A1C 5S7. xv + 164p. Available from the publisher (tel:709-737-8000; fax:709-737-2041; e-mail:iser@kean.ucs.mun.ca) at $35.00 (paper: ISBN 0-919-666-85-X).

Dangling Lines is a fine book that expands our understanding of the fisheries crisis in Norway and the challenges facing fisheries everywhere. It is a book about crisis, response, and recovery. "There is hope in a dangling line!"—the Norwegian saying from which the title is derived—suggests both hope for potential catch and passivity in waiting for the fish to bite. Jentoft presents a cogent argument against passively waiting for change, and suggests strategies for the Norwegian fishing industry to rebuild hope by positioning itself for the future.

The author analyzes the Norwegian fisheries crisis of 1989-1992, particularly as it affected the Finnmark region of northern Norway. Published in Norwegian in 1991 and in English translation with epilogue in 1993, the book has 16 chapters which address the causes of the crisis, its effects, lessons learned, and options for the future of coastal communities. Attention is focused on the human resources of fisheries. Chapter subjects are both specific to the crisis in Norway and applicable to other coastal communities and fisheries worldwide.

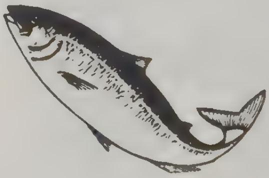
The characteristics of the fisheries crisis and the attending social gloom will strike a familiar note to those outside Norway. Interest groups point fingers of blame at each other, cause is denied, claims of superior rights to the fishery are made, resource-dependency is emphasized, demands for assistance are made, uncertainty about the future combines with fear of losing traditions, attention is turned to long-term objectives of regulation, and conflicts between the periphery and the center expand.

A description of "why everything goes wrong" details the pathological combination of open access, profit-driven competition, false optimism of extended jurisdiction, unintended effects of regulations, perceptions of regulatory unfairness, and disagreements about management approaches. Several chapters detail the onshore processing component of the industry, analyzing the interaction between traditional business methods, levels of expertise, working conditions, gender division of work, and rapidly changing international markets. Gender issues are featured prominently in several chapters, a refreshing change from the more usual treatment in the literature of women as invisible partners of the fishing industry. Suggestions are made to enhance coastal community competitiveness through increases in the knowledge base, diversification, development of business networks, and regulatory reform. The rapid development of Norway's small-scale aquaculture industry is offered as an example of successful, decentralized economic development.

Several dimensions of fishery regulation are also discussed: Can management avoid crises? Does a good regulatory system exist? How should management be structured? A very useful discussion of regulatory legitimacy is presented, detailing what constitutes legitimacy, how it is developed, how it affects the monitoring and enforcement of regulations, and how it relates to accepted notions of democratic processes. The importance of regulatory legitimacy and stability are discussed. There are many possible characteristics of a good regulatory system, and the key issue is to obtain agreement of what is best within a given context.

The analysis presented in this book extends in applicability well beyond Norway, making the book particularly useful for those trying to understand, respond to, or prevent fishery crises in other areas. Readers familiar with the current fishery situations in Newfoundland cod, New England groundfish, or Pacific Northwest salmon will recognize several shared themes: the characteristics of a fisheries crisis, difficulties of maintaining a socially and economically viable fishing industry in combination with other industries, such as tourism; the design of economic development strategies appropriate to the coastal community context; the development of regulations that have legitimacy with users; the importance of new skills and knowledge for decreasing dependency and increasing diversification; and the importance of distributional issues in fishery management, including those between local and national, men and women, the fishing industry and other industries. Even when crises ease, instability in fisheries is the norm.

In his emphasis on lessons to be learned and his suggested strategies for adaptation, education, diversification and preparation for the future, Jentoft introduces a tone of optimism into the book; not the passive optimism of the dangling line but the more realistic optimism of hope combined with deliberate action. I would recommend this excellent book to fishery managers, academic natural scientists and social scientists, students, and anyone interested in the challenges of sustainable use of resources.—*Susan S. Hanna, Department of Agricultural and Resource Economics, Oregon State University, Corvallis, Oregon 97331-3601 (tel:503-737-1437; fax:503-737-2563; e-mail:hannas@ccmail.orst.edu).*



BOOK REVIEW

Fish Medicine, edited by Michael K. Stoskopf. 1993. W. B. Saunders, The Curtis Center, Independence Square West, Philadelphia, PA 19106-3399. xix + 882p. Available from the publisher (tel:800-545-2522) at $105.00 (cloth: ISBN 0-7216-2629-7).

This is an outstanding compilation of interesting fish health and ancillary information by many experts in the field. Unfortunately, it fails its omniparient premise—one book for everything. The text fills a void both in the instruction of fish health to veterinarians and for a reference in general veterinary medicine practice. It is also highly useful as an aquarium-aquaculture health reference for the non-specialist. Fishery professionals, however, will be frustrated by its excess of materials that they do not need (or is presented in better form in other books), incompleteness, inconsistencies and errors. Post's 1987 *Textbook of Fish Health* (TFH Publ. Inc., Neptune City, NJ) is a more focused, practical and concise choice, although it, too, is not perfect and is more dated. Despite these shortcomings, *Fish Medicine* is the best and most up-to-date compilation on fish health available.

This enormously ambitious undertaking includes, in Part I (p. 1-220), a general glimpse at everything that might have anything vaguely to do with fish health, including chapters entitled Anatomy, Fish Health, Clinical Physiology, Clinical Genetics, Clinical Examination and Procedures, Anesthesia and Restraint, Surgery, Hospitalization, Clinical Pathology, General Parasitology, Immunology, Postmortem Examination, Water Analysis, Soil and Substrate Analysis, Specific Ion and Toxicologic Analysis, Epidemiology, and Zoonotic Diseases. Part II (p. 224-816) includes chapters on Freshwater Temperate Fishes; Salmonids; Goldfish, Koi, and Carp; Catfishes; Freshwater Tropical Fishes; Marine Tropical Fishes; Marine Cold-Water Fishes; and Sharks, Skates, and Rays.

Most sections have chapters entitled (with minor variations) Taxonomy and Natural History, Special Anatomy and Physiology, Clinical Pathology, Environmental Requirements/Disease, Nutrition/Disease, Reproduction, Bacterial Diseases, Fungal and Algal Diseases, Viruses, Parasites, Neoplasms, Toxicology, and Pharmacology. Appendices include conversion tables, abbreviations for fish cell lines, diagnostic laboratories, supply companies, chemotherapeutics, fish names mentioned in the text, and index.

The "one-book-covers-everything" concept virtually guarantees production of a volume that is both unmanageable in size and incomplete. Part I (chapters 1-17) should be enlarged to a complete summary of fish health, written by the editor alone, and published as a separate book for non-fish people. The chapters on fish anatomy, histology, etc. are not needed by most specialists, for better guides to these topics exist on every fish biologist's bookshelf. Chapter 16 concerns fish "Epidemiology", but this term, by definition, refers only to humans (Williams et al. 1993. Nature 364:664). Epidemiology and its derivatives are misused throughout the volume, although some chapters, inconsistently, use the correct terms.

Part II (chapters 18-102) has no defined purpose or limit of scope. It lacks a "Temperate Marine" section, as well as coverage for fishes in offshore pelagic, deep-sea, polar, cave, and other habitats; "Estuarine" is inadequately tagged onto "Freshwater Temperate Fishes" (as if other aquatic zones lack brackish areas) and somehow stretches into strictly marine species. Part II is seriously deficient in lacking sections or chapters about (1) control of the extremely important exotic diseases that are transmitted in ornamental fish trade and aquaculture activities; (2) fish health management for large-scale fish production (the major supporter of veterinary services); (3) ethical considerations of severe habitat modification, pollution, and fish health problems caused by intensive fish culture, wild tropical fish capture, and use of toxic collecting chemicals; (4) government fish health inspection; (5) fish health-related controversy involving professional status of university PhDs versus DVMs; and (6) the future.

Most sections are not equivalent, overlap, and have vaguely outlined internal or synergistic goals. The featured fish species differ drastically in chapters within a section. Chapters vary in coverage from USA to worldwide. Titles and coverage of equivalent chapters vary—for example, "Parasites of..." (in chapters 27, 39, 60, 89), "Parasitic Diseases..." (chapters 50, 81, 100) and "Parasites Associated..." (Chapter 70). Almost nothing is known about some chapter topics. Others border on science fiction and must have been written with great difficulty. The text sometimes ignores, unnecessarily duplicates, or reinvents materials that are readily available elsewhere. Some authors extend their topic summaries beyond their expertise. If Part II is intended to be a guide to "Fish Medicine" for practicing veterinarians, then it should be redirected into a volume about the health of existing aquaculture and aquarium fish species (the only solvent clients for veterinary medicine) and limited to those fishes that might be expected to receive veterinary care in the USA or Canada. The coverage of other fishes and countries should be reduced and the target groups expanded. The bulk of peripherally non-health topics should be replaced with mere citations to the existing (and usually more adequate) literature.

Some of the information on each pathogen is erroneous, outdated, inconsistent, or overgeneralized. Fish-associated isopods may be used as an example. Fifty-nine serious errors occur in less than 800 words on parts of 10 pages that concern isopods. A sentence on page 590 is illustrative: "Praziquantel baths will kill larval forms [do not occur on fishes] of *Livoneca* [genus spelled correctly on page 726] *symmetrica* [species not in this genus] [Moser et al., 1986 (J. Parasitol. 72:175) does not mention isopods, nor has he ever treated isopods with praziquantel (M. Moser, pers. comm.)]." A phrase on page 657 ("...lionfish infested with *Ichthyotaces pteroisicola*...") is doubly embarrassing: it is used as an example of an isopod, but is correctly cited as a copepod in literature mentioned on the next page. Such errors might have been avoided in the case of the lionfish especially, for it is a host species featured prominently on the cover of the book.

Appendix III (Fish Diagnostic Laboratories) is unnecessary because the USDA publishes a more accurate listing with more information (*Directory of Animal Disease Diagnostic Laboratories* [USA], Natl. Vet. Serv. Lab., P.O. Box 844, Ames, IA 50010). Appendix IV (Sources of Supplies) is incomplete, inexplicable, and illogical. Appendices VI (Scientific Names and Their Common Equivalents) and VII (Common Names and Their Scientific Equivalents) are schizophrenic. Either the common names or the scientific names of fishes should have been used throughout the book to avoid duplication. *Fish Medicine* at least should follow the American Fisheries Society, FAO/UN, or another standard authority on common names of fishes. In short, it should not pretend to be the source for everything. In any case, everyone will find something of use in this volume, as long as it is not trusted as the primary source of information.—*Ernest H. Williams, Jr., Department of Marine Sciences, University of Puerto Rico, P.O. Box 908, Mayagüez, Puerto Rico 00667-0908 (tel: 809-899-2048, ext. 211; fax:809-899-5500; e-mail:e_williams@rumac.upr.clu.edu) and Lucy Bunkley-Williams, Department of Biology, University of Puerto Rico, P.O. Box 5000, Mayagüez, Puerto Rico 00681-5000 (tel:809-265-3837; fax:809-265-3837; e-mail:l_bunkley@rumac.upr.clu.edu).*

BOOK REVIEW

Folk Management in the World's Fisheries: Lessons for Modern Fisheries Management, edited by Christopher L. Dyer and James R. McGoodwin. 1994. University Press of Colorado, P.O. Box 849, Niwot, CO 80544. xii + 347p. Available from the publisher (tel:800-268-6044) at $27.50 (cloth: ISBN 0-87081-325-0).

This is an important, lucid, practical volume of essays addressing the vital issue of fisheries folk and co-management. The book is set up to be approachable by either the natural or the social scientist, and also to be useful to bureaucrats who may currently be involved with, or considering incorporating, folk/co-management into their regulatory structures. Individual case studies highlight various regimes found in a range of fisheries around the globe; lessons drawn from these diverse examples are presented at the end of each essay. From the Foreword onward, this book pulls no punches about the difficulties involved in operating such systems, but gives a balanced view of the strengths and weaknesses they currently possess. It does more: it also addresses questions of theory and practice and, indeed, serves to move the debate on both to a new level.

The basic questions which inform that debate are posed in the introductory essay by the editors. Problems and prejudices are met head on: what *is* folk?; the opponents are *not* artisanal versus high-technology modes of operation; folk society is, to some degree, a thing of the past. However (to offer a concrete example of the sophistication a reader can expect here), the main point is that "a localized worldview, and locally developed assertions about how to best manage fisheries, still arise...at every level of technological sophistication." Moreover, where fishers "live and where they work is still a localized, specific place, and quite often they perceive that they take their catches from a specific, bounded, marine ecosystem, which from their perspective has unique systemic attributes" (p. 5). Folk management occurs when this knowledge is culturally integrated into the way of life such that sustainability is lived and practiced.

The essays follow, examining fisheries from the tropics to the sub-Arctic, from culturally relatively undisturbed communities to those which operate alongside industrial fishing enterprises which have little or no local attachment, and from those which are almost completely state-managed to those in which local autonomy exists. It becomes clear that the book is exploring a wide range of possible variations on the folk/co-management theme, and the concluding chapter brilliantly turns this into a double model of horizontal and vertical continuums of organization and power structures. Theory is in effect not only revisited, recast in the light of what the individual essays have uncovered. There follow, in a fitting conclusion to an outstanding volume, 20 working hypotheses and 10 problems that will have to be faced in practice. This is why this book is essential reading for all those who work in, or study, or manage fisheries, as well as anyone who would like to understand why they are such a contentious issue at all scales of operation, local or global.—*Rosemary E. Ommer, Institute of Social and Economic Research, Memorial University of Newfoundland, St. John's, NF, Canada A1C 5S7 (tel:709-737-8157; fax:709-737-2041; e-mail:iser@kean.ucs.mun.ca).*

BOOK REVIEW

From the Forest to the Sea: The Ecology of Wood in Streams, Rivers, Estuaries, and Oceans, by Chris Maser and James R. Sedell. 1994. St. Lucie Press, 100 E. Linton Blvd.—Suite 403B, Delray Beach, FL 33483. xiv + 200p. Available from the publisher (tel:407-274-9906; fax:407-274-9927) at $59.95 (cloth: ISBN 1-884015-17-4).

The importance of wood in aquatic environments has been emerging from scientific studies during the last two decades. Maser and Sedell have synthesized this information, capturing the interrelationships between forest wood contribution to the aquatic environment and the productivity of both freshwater and ocean environment. The journey of wood from the smallest headwater stream to its ultimate impact on the world's oceans is explored in a simple, yet eloquent dialogue. Many examples of the intricate linkages of wood to all forms of aquatic and terrestrial life are tied together to present a fascinating story.

The authors explore thoroughly the loss of vast amounts of wood input contributed by the world's primeval forest to streams and oceans worldwide. The Pacific Northwest is the primary focus of the book. However, research and observations from throughout the world are presented to drive home the fact that wood inputs are changing, with significant ecological consequences.

The book is organized in three sections. They chronicle the impact of European settlers on the aquatic ecosystem of the Pacific Northwest; the interrelationships of wood, streams, estuaries, and the sea; and the continuing influence of present populations and politics in altering the ecosystem. The theme of the book clearly emphasizes the major importance of large organic debris to the continued productivity of the aquatic ecosystem. Moreover, it underscores the continued depletion of this vital component.

The text is easy to read and brings home its major points with a wealth of illustrations, maps, and photographs. Although the authors deal with a subject that is vast in scope, they have clearly organized the findings of many scientists in a way that is understandable to readers of different backgrounds. Each chapter and section summarizes major points for the reader. A comprehensive bibliography of 240 references is provided for those who may wish to pursue the subject further.

From the Forest to the Sea should appeal to a wide audience, including scientists, conservationists, land manager, planners, students, and teachers of environmental studies. Even though it focuses primarily on the Pacific Northwest, the information has applicability on a global scale. It represents the most comprehensive effort to date to bring together the major knowledge in the field. I strongly recommend the book to anyone working in the fisheries or aquatic field as well as those who are actively working to restore the aquatic environment.—*John W. Anderson, U.S. Forest Service, Wallow-Whitman National Forest, P.O. Box 907, Baker City, Oregon 97814 (tel:503-523-1382; fax:503-523-1315).*

BOOK REVIEW

Genetics and Evolution of Aquatic Organisms, edited by A. R. Beaumont. 1994. Chapman & Hall, Inc., 115 Fifth Avenue, New York, NY 10003. xvii + 539p. Available from the publisher (tel:800-634-7064; fax:212-268-9964; e-mail:order@chaphall.com) at $119.95 (cloth: 0-412-49370-5).

Genetics and Evolution of Aquatic Organisms is a collection of 44 papers that were presented at a conference with that title in Bangor, Wales in 1992. The proceedings is composed of 8 review papers and 36 papers that describe original research. The book is divided into nine sections: Speciation and Wide-Scale Genetic Differen-iation; Gene Flow and Population Structure; Heterozygosity, Heterosis and Adaptation; DNA Technology and Genetics of Aquatic Invertebrates; DNA Technology and Phylogeny of Fish; Genetics of Aquatic Clonal Organisms; Chromosomal Genetics; Genetics and Pollution; and Genetics and Aquaculture. The papers are quite eclectic and cover research with fish, molluscs, insects, zooplankton, shrimp, sponges, echinoderms, barnacles, and amphipods. The proceedings has a decidedly European flavor, in that most authors are European.

No single person can claim to be expert enough to critically evaluate the originality or contribution to knowledge made by every research or review paper, but those that I feel competent to judge were well researched and well written. The general clarity of the papers is, no doubt, due to a peer review process and the work of the editor. He is to be complimented for compiling more than a camera-ready collection of papers that many seem to favor simply because it requires no editorial effort and expedites publication.

The target audience for this reference book is geneticists. The topics are highly specialized; as such it will be of ittle or passing interest to most aquatic biologists. This is not a criticism of the book or its topics; this volume is he proceedings of a highly specialized conference, and it is written for those interested in this subject. Furthermore, most geneticists will probably be interested in only the handful of papers that discuss topics about he animals with which they work.—*Douglas Tave, Urania Unlimited, 586 N. 2nd St., Coos Bay, Oregon 97420 tel:503-267-6405).*

BOOK REVIEW

Health Maintenance of Cultured Fishes: Principal Microbial Diseases, by John A. Plumb. 1994. CRC Press, 2000 Corporate Blvd., N.W., Boca Raton, FL 33431-9868. x + 254p. Available from the publisher (tel:800-272-7737, ax:800-374-3401) at $95.00 (cloth: ISBN 0-8493-4614-2).

This book is an outstanding guide to the health maintenance of temperate and coldwater aquaculture fishes in North America and Europe. It is an essential reference for aquaculture and fish-culture professionals, fishery biologists, and fish farmers and is an excellent textbook for aquaculture and fisheries health courses. This book contains the most up-to-date information about these important fish diseases. The author is a renowned expert n the field with direct, broad research and practical experience with most of the pathogens characterized.

Part One (Health Maintenance, pages 1-45), with three chapters—(I) Principles of Health Maintenance, (II) pizootiology of Fish Diseases, and (III) Pathology—is a step-by-step guide to keeping fish healthy. Part Two (Viral Diseases, pages 47-132), with eight chapters—(IV) Catfish (Ictaluridae), (V) Carp and Minnows (Cyprinidae), (VI) els (Anguillidae), (VII) Pike (Esocidae), (VIII) Trout and Salmon (Salmonidae), (IX) Sturgeon (Acipenseridae), (X) Walleye (Percidae), and (XI) Other Viral Diseases (Lymphocystis, Viral Erythrocytic Necrosis)—provides details on ome of the most important viral diseases of fishes. Part Three (Bacterial Diseases, pages 133-238), with four hapters—(XII) Catfish, (XIII) Cyprinids, (XIV) Eels, (XV) Salmonids, and (XVI) Miscellaneous Bacterial Diseases *Mycobacterium* spp. and *Nocardia* spp., Pasteurellosis, *Streptococcus* spp. and *Enterococcus* spp. Septicemia)—haracterizes most of the important bacterial diseases of fishes. Coverage includes neither diseases of aquarium shes, tropical tilapias, and all Asian fishes nor algal, fungal, and protozoan diseases.

Most disease descriptions are divided into subheadings of (1) Geographical Range and Species Susceptibility, 2) Clinical Signs and Findings, (3) Diagnosis and Pathogen Characteristics, (4) Epizootiology, (5) Pathological Manifestations, (6) Significance, and (7) Management. This excellent scheme defines each disease in chapters V, V, VII, VIII and XI-XVI, but subheadings are abandoned in chapters VI and IX-X. These subheadings should ave been numbered the same throughout, but change from letters to numerals in chapter XVI. Adequate eferences are included at the end of each chapter to direct the reader to the principal literature without using xcessive numbers of citations.

he coupling of fish common and scientific names, or use of common names only, appears to be randomized. or example, largemouth bass scientific and common names are always coupled, even on adjacent pages 15 nd 16; rainbow trout names are coupled infrequently (11%) and erratically (p. 9, 37, 142, 161, 171, 177, 226); nd Pacific herring names (p. 127, 128, 204) are not coupled until the final usage (p. 204). The Index is well ormed and useful, but does not contain all items of importance and has some erroneous page listings. ypographical and other minor errors are rare and largely limited to fish names (7 misspellings or incorrect genera, 0 species, 21 common names), and crustacean parasites (4 genera).

RC publishes specialized scientific books for limited audiences and thus must charge relatively high prices. nfortunately, the publisher has underestimated the appeal, usefulness, and number of customers for this book. We hope additional printings will be made available at a more reasonable price.

Health Maintenance of Cultured Fishes is delightful and highly useful, but too concise to include any of the rich nsights from the author's experiences and wisdom gathered in his long and highly productive career. We hope o see additional books from this outstanding researcher and scholar.—*Lucy Bunkley-Williams, Department of iology, University of Puerto Rico, P.O. Box 5000, Mayagüez, Puerto Rico 00681-5000 (tel:809-265-3837; x:809-265-3837; e-mail:l_bunkley@rumac.upr.clu.edu) and Ernest H. Williams, Jr., Department of Marine Sciences, University of Puerto Rico, P.O. Box 908, Mayagüez, Puerto Rico 00667-0908 (tel:809-899-2048, ext. 211; x:809-899-5500; e-mail: e_williams@rumac.upr.clu.edu).*

BOOK REVIEW

Marine Fish Parasitology: An Outline, by Jadwiga Grabda. 1991 (translation of 1981 Polish edition). VCH Publishers, Inc., 220 E. 23rd St.—Suite 909, New York, NY 10010-4906). xi + 306p. Available from the publisher (tel:800-367-8249; fax:800-367-8247) at $80.00 (cloth: ISBN 3-527-26898-7).

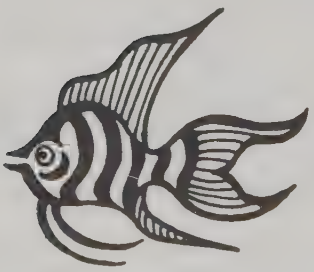
The English version of the late J. Grabda's book, edited by Eugeniusz Grabda, is translated from the 1981 Polish edition. Literature updates are sparse, are mainly from Polish authors, and range only through 1986. Although dated, the book remains a useful focus on eastern European fish parasites, based extensively on the author's own data. It is especially detailed on anthropozoonoses—public health problems from consumption of larval parasites in undercooked fish—on which J. Grabda published extensively in the 1970s.

As the title suggests, *Marine Fish Parasitology: An Outline* offers an overview of the field, predominantly for students of marine fisheries. It embraces 21 chapters organized in four parts. Part One is a general introduction with 12 brief (1-5 pages) chapters on origins, ecology, specificity, pathology, phylogeny, and economic importance of marine fish parasites.

Part Two comprises three profusely illustrated chapters surveying parasites of fishes, with selected descriptions, among the fungi (p. 43-49), protozoan phyla (p. 50–81), and metazoans—the phyla, classes, and selected orders of Cnidaria (p. 82-84), helminths (p. 84–180) and arthropods (p. 181–227). The systematic section emphasizes life cycles and economically important genera and species, especially those from eastern Europe and the northeastern Atlantic. Numerous European freshwater fishes also are covered when of particular economic interest. I especially liked the numerous half-tone photographs and line drawings of entire specimens of parasites as dissected from host tissues (the cover photograph, for example, shows habitus of the highly modified parasitic copepod *Lernaeolophus sultanus*).

Part Three—Fish-borne Anthropozoonoses (p. 229-255)—covers human diseases commonly caused by cestodes, digenetic trematodes, nematodes, acanthocephalans, each helminth group in its own chapter, and a two-page chapter on fish-processing prophylaxis against infection. Grabda's data on public health-related problems are thorough and fascinating, especially as related to dietary customs and traditional food-handling practices in Europe. Finally, Part Four contains one chapter, entitled Parasitic Diseases of Fish in Maricultures. Although life-cycle data and discussion of pathology in parasite invasions still are useful, procedures outlined for prophylaxis and treatment tend to be out of date. For example, there is no mention of using labrid fish "cleaners" to control caligid sealice in salmon net-pen culture.

There are many more detailed, recent books available on the various groups of marine fish parasites. However, *Marine Fish Parasitology* still will find a useful place in professional libraries and for student reference. The illustrations, life histories, and specifics for important fisheries are well worth having for ready access.—*John S. Ramsey, National Biological Service, Information Transfer Center, 1201 Oak Ridge Drive—Suite 200, Fort Collins, Colorado 80525-5589.*



BOOK REVIEW

redictions Under Uncertainty: Fish Assemblages and Food Webs on the Grand Banks of Newfoundland, by Manuel lo Carmo Gomes. 1993. Social and Economic Studies No. 51. ISER Books, Institute of Social and Economic Research, Aemorial University of Newfoundland, St. John's, NF, Canada A1C 5S7. xiii + 206p. Available from the publisher tel:709-737-8157; fax:709-737-2041; e-mail:iser@kean.ucs.mun.ca) at $35.00 (paper: ISBN 0-919666-81-7).

Aarine fishery ecosystems influenced by natural phenomena and human activities undergo dramatic fluctuations in bundance of individual species and community composition over time. These fluctuations obviously have onsiderable economic and socio-political impacts, and it is important to understand why they occur. *Predictions Jnder Uncertainty* provides us with a coherent theory for understanding and analyzing multispecies community lynamics.

o simplify the task of understanding fish assemblages and food webs, as well as protecting resources, Manuel do armo Gomes makes available much of the primary literature. Moreover, he derives a unique framework for redictions of changes in complex marine ecosystems. The book details an extensive study of 17 years of survey lata on the Grand Banks of Newfoundland ecosystem. It identifies the appropriate scale to examine the relative roles layed by biotic and abiotic factors in determining species distributions and abundance. From these components, omes constructs a community model for understanding the environment in which these fishes live.

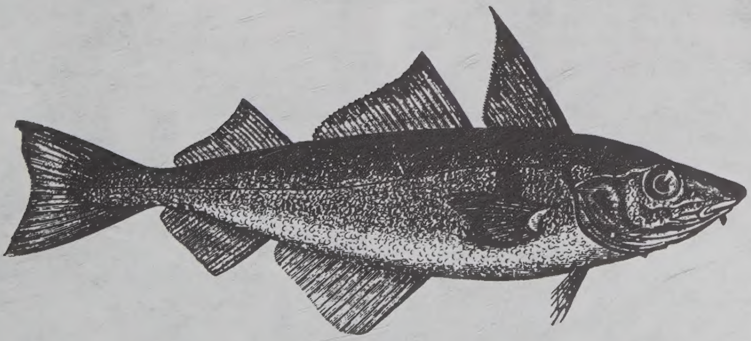
he book is organized in an intriguing manner. It begins by describing purpose and history. Then, because pattern s largely dependent on scale, it defines spatial and temporal scales to be applied based on the significant variation f some quantities of interest. Gomes then illustrates some statistical methods for organizing similar fish ssemblages on the basis of interannual geographic distributions. His framework aims at gaining a global picture n which to understand the biological coherence of assemblages and their abundance trends.

he most important features of feeding interactions and food webs are defined by exploring the complex network f trophic interactions within two major zoogeographic regions. Gomes also reviews available literature on the diet f dominant species on the Grand Banks and compares the static properties of the food webs with properties of ther published marine food webs. From there, alternative topological configurations of the community are built sing "digraph models," "loop analysis," and "press perturbations" to capture the main features of year-round dynamics.

he principal sources of uncertainty are both community structure and population interaction. Gomes develops nathematical tools and stochastic methods to make short- and long-term predictions about the behavior and ersistence of the Grand Banks ecosystem. His modeling procedure considers the rate of change in abundance n any of the *n* species to be some function of the abundance of all species in the system. Long-term predictions bout community dynamics are highly sensitive to initial conditions in the models.

lo information is available to decide which model more accurately represents the major determinants of ommunity dynamics in the field. Here, uncertainty about the "best" model structure of the community prevents redicting the outcome of 84% of all species interactions. Ultimately, by accounting for all the signals and the oise—both quantitatively and qualitatively—we can gain perspective on how fish populations fluctuate. However, his requires sorting out the fidelity of biological signals (e.g., species-to-species interactions) from noise associated vith physical events.

redictions Under Uncertainty makes moderate use of matrix algebra and partial differential equations. This book vill be of particular interest to those endeavoring to gain a better comprehension of living resources.-*Jerald S. ult, University of Miami, Rosenstiel School of Marine and Atmospheric Science, Division of Marine Biology and isheries, 4600 Rickenbacker Causeway, Miami, Florida 33149 (tel:305-361-4884; fax:305-361-4791; e-nail:ault@shark.rsmas.miami.edu).*



BOOK REVIEW

Salmon Aquaculture, edited by Knut Heen, Robert L. Monahan, and Fred Utter. 1993. John Wiley & Sons (Halsted Press), 605 Third Ave., New York, NY 10158. x+278p. Available from the publisher (tel:800-225-5945) at $67.95 (cloth: ISBN 0-47022-139-9).

Salmon Aquaculture is an extensive overview of the husbandry of salmonid fishes in suspended nets. The focus of the book is on the geography, biology, and economics of the farming of Atlantic salmon. Twelve chapters, each written independently, cover the distribution, culture, technology, nutrition, genetics, regulation, and economics of this rapidly growing world aquaculture.

Growout technology in suspended enclosures is the focus of husbandry considerations; smolt production is emphasized to a lesser extent. The authors point out that this aspect of salmonid culture is adequately covered elsewhere.

A total of 19 contributors, mostly Norwegian, comprise the authorship of the book. This breadth of expertise makes *Salmon Aquaculture* the most complete and up-to-date coverage on the topic on pen culture of salmonids available.

Salmon Aquaculture will be useful to students of aquaculture and potential investors in this growing industry. It is a particularly complete in its coverage of recent statistics on global salmon production trends and potential obstacles to success, including regulatory and economic constraints as well as biological considerations.—*Richard W. Soderberg, Fisheries Program, Mansfield University, Mansfield, Pennsylvania 16933 (tel:717-662-4539).*

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